

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|   |  |  |  |
|---|--|--|--|
| <b>UTILITY<br/>PATENT APPLICATION<br/>TRANSMITTAL</b><br><small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small> |  | <b>Attorney Docket No.</b> SON-2920  |  |
|   |  | <b>First Inventor</b> Hironori Ibusuki   |  |
|   |  | <b>Title</b> EXPOSURE PATTERN OR MASK AND INSPECTION<br>METHOD AND MANUFACTURE METHOD FOR THE SAME |  |
|   |  | <b>Express Mail Label No.</b>  |  |

  

|  |   |
|--|---|
| <b>APPLICATION ELEMENTS</b><br><small>See MPEP chapter 600 concerning utility patent application contents.</small> | <b>ADDRESS TO:</b><br>MS Patent Application<br>Commissioner for Patents<br>P.O. Box 1450<br>Alexandria, VA 22313-1450 |
|--|---|

  

|   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17)<br><small>(Submit an original, and a duplicate for fee processing)</small><br>2. <input type="checkbox"/> Applicant claims small entity status.<br><small>See 37 CFR 1.27.</small><br>3. <input checked="" type="checkbox"/> Specification <span style="float: right;">[Total Pages <b>34</b>]</span><br><small>(preferred arrangement set forth below)</small> <ul style="list-style-type: none"> <li>- Descriptive title of the invention</li> <li>- Cross Reference to Related Applications</li> <li>- Statement Regarding Fed sponsored R &amp; D</li> <li>- Reference to sequence listing, a table, or a computer program listing appendix</li> <li>- Background of the Invention</li> <li>- Brief Summary of the Invention</li> <li>- Brief Description of the Drawings (if filed)</li> <li>- Detailed Description</li> <li>- Claim(s)</li> <li>- Abstract of the Disclosure</li> </ul> 4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) <span style="float: right;">[Total Sheets <b>15</b>]</span><br>5. Oath or Declaration <span style="float: right;">[Total Sheets <b>2</b>]</span> <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> Newly executed (original or copy)</li> <li>b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d))<br/> <small>(for continuation/divisional with Box 18 completed)</small> <ul style="list-style-type: none"> <li>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b><br/>           Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</li> </ul> </li> </ul> 6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76 | 7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program <i>(Appendix)</i><br>8. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission<br><small>(if applicable, all necessary)</small> <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> Computer Readable Form (CRF)</li> <li>b. Specification Sequence Listing on:           <ul style="list-style-type: none"> <li>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</li> <li>ii. <input type="checkbox"/> Paper</li> </ul> </li> <li>c. <input type="checkbox"/> Statements verifying identity of above copies</li> </ul> |
|---|---|

  

|   |  |
|---|--|
| <b>ACCOMPANYING APPLICATION PARTS</b>   |  |
| 9. <input type="checkbox"/> Assignment Papers (cover sheet & document(s))<br>10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <span style="float: right;"><input type="checkbox"/> Power of Attorney</span><br><small>(when there is an assignee)</small><br>11. <input type="checkbox"/> English Translation Document <i>(if applicable)</i><br>12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <span style="float: right;"><input type="checkbox"/> Copies of IDS Citations</span><br>13. <input type="checkbox"/> Preliminary Amendment<br>14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503)<br><small>(Should be specifically itemized)</small><br>15. <input checked="" type="checkbox"/> Certified Copy of Priority Document(s)<br><small>(if foreign priority is claimed)</small><br>16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i).<br><small>Applicant must attach form PTO/SB/35 or its equivalent.</small><br>17. <input type="checkbox"/> Other: |  |

  

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation   
 ☐ Divisional   
 ☐ Continuation-in-part (CIP)   
 of prior application No.: \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_    Art Unit: \_\_\_\_\_

**For CONTINUATION OR DIVISIONAL APPS only:** The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The Incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

  

|  |   |           |                |          |                |
|--|---|-----------|----------------|----------|----------------|
| <b>19. CORRESPONDENCE ADDRESS</b>  |   |           |                |          |                |
| <input checked="" type="checkbox"/> Customer Number: <span style="border: 1px solid black; padding: 0 20px;">23353</span> OR <input type="checkbox"/> Correspondence address below |   |           |                |          |                |
| Name   | RADER, FISHMAN & GRAUER PLLC<br>Ronald P. Kananen |           |                |          |                |
| Address  | 1233 20th Street, N.W.<br>Suite 501               |           |                |          |                |
| City   | Washington  | State     | DC             | Zip Code | 20036          |
| Country  | US  | Telephone | (202) 955-3750 | Fax      | (202) 955-3751 |

  

|                   |                   |                                   |        |
|-------------------|-------------------|-----------------------------------|--------|
| Name (Print/Type) | Ronald P. Kananen | Registration No. (Attorney/Agent) | 24,104 |
| Signature         |                   |                                   | Date   |
|                   |                   | February 19, 2004                 |        |

 031356 U.S. PTO  
 10/780667


021904

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| FEE TRANSMITTAL<br>for FY 2003   |  | Complete if Known    |                   |
|--|--|----------------------|-------------------|
| Effective 01/01/2003, Patent fees are subject to annual revision.              |  | Application Number   | Not Yet Assigned  |
|  |  | Filing Date          | February 19, 2004 |
|  |  | First Named Inventor | Hironori Ibusuki  |
|  |  | Examiner Name        | Not Yet Assigned  |
|  |  | Art Unit             | N/A               |
|  |  | Attorney Docket No.  | SON-2920          |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27 |  |                      |                   |
| <b>TOTAL AMOUNT OF PAYMENT</b> (\$) <b>824.00</b>                              |  |                      |                   |

  

| METHOD OF PAYMENT (check all that apply)  | FEE CALCULATION (continued)   |              |          |  |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
|---|---|--------------|----------|--|----------|-----------------|----------|----------|----------|----------|----------|------|-----|------|-----|-------------------------------------|--------|------|-----|------|-----|---|--|------|-----|------|-----|---------------------------|--|------|-------|------|-------|--|--|------|------|------|------|--|--|--|--------|------|--------|---|--|--|-----|--------------|----|--|--|-----------------|----------|----------|----------|---|----------|------|-----|------|-----|--|--|------|-------|------|-----|---|--|------|-------|------|-----|--|--|------|-----|------|-----|--|--|------|-----|------|-----|--|--|---------------------------------------|-----|------|-----|--------------------------|--|------|-------|------|-------|---|--|------|-----|------|----|----------------------------------|--|------|-------|------|-----|------------------------------------|--|------|-------|------|-----|--------------------------------|--|------|-----|------|-----|------------------|--|------|-----|------|-----|-----------------|--|------|-----|------|-----|-------------------------------|--|------|----|------|----|-------------------------------------|--|------|-----|------|-----|---|--|------|----|------|----|--|--|------|-----|------|-----|---|--|------|-----|------|-----|--|--|------|-----|------|-----|---|--|------|-----|------|-----|---|--|---------------------------|--|--|--|--|--|--|--|--|--|--------------------------------------|--|
| <input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None<br><input checked="" type="checkbox"/> Deposit Account:<br>Deposit Account Number: <span style="border: 1px solid black; padding: 2px;">18-0013</span><br>Deposit Account Name: <span style="border: 1px solid black; padding: 2px;">Rader, Fishman &amp; Grauer PLLC</span><br>The Director is authorized to: (check all that apply)<br><input checked="" type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments<br><input type="checkbox"/> Charge any additional fee(s) during the pendency of this application<br><input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.   | <b>3. ADDITIONAL FEES</b><br><table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet.</td><td></td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>1804</td><td>920*</td><td>1804</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>1805</td><td>1,840*</td><td>1805</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>1252</td><td>410</td><td>2252</td><td>205</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>1253</td><td>930</td><td>2253</td><td>465</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>1254</td><td>1,450</td><td>2254</td><td>725</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>1255</td><td>1,970</td><td>2255</td><td>985</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>1401</td><td>320</td><td>2401</td><td>160</td><td>Notice of Appeal</td><td></td></tr> <tr><td>1402</td><td>320</td><td>2402</td><td>160</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>1403</td><td>280</td><td>2403</td><td>140</td><td>Request for oral hearing</td><td></td></tr> <tr><td>1451</td><td>1,510</td><td>1451</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>1453</td><td>1,300</td><td>2453</td><td>650</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>1501</td><td>1,300</td><td>2501</td><td>650</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>1502</td><td>470</td><td>2502</td><td>235</td><td>Design issue fee</td><td></td></tr> <tr><td>1503</td><td>630</td><td>2503</td><td>315</td><td>Plant issue fee</td><td></td></tr> <tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Processing fee under 37 CFR 1.17(q)</td><td></td></tr> <tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>1809</td><td>750</td><td>2809</td><td>375</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>1810</td><td>750</td><td>2810</td><td>375</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td>1801</td><td>750</td><td>2801</td><td>375</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>1802</td><td>900</td><td>1802</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr><td colspan="6">Other fee (specify) _____</td></tr> <tr> <td colspan="4"> <b>Subtotal (1)</b> (\$) <b>770.00</b> </td> <td colspan="2"> <b>Subtotal (3)</b> (\$) <b>0.00</b> </td> </tr> </tbody> </table> | Large Entity |          | Small Entity   |          | Fee Description | Fee Paid | Fee Code | Fee (\$) | Fee Code | Fee (\$) | 1051 | 130 | 2051 | 65  | Surcharge - late filing fee or oath |        | 1052 | 50  | 2052 | 25  | Surcharge - late provisional filing fee or cover sheet. |  | 1053 | 130 | 1053 | 130 | Non-English specification |  | 1812 | 2,520 | 1812 | 2,520 | For filing a request for <i>ex parte</i> reexamination |  | 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action |  | 1805                                   | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action |  | 1251   | 110 | 2251         | 55 | Extension for reply within first month |  | 1252            | 410      | 2252     | 205      | Extension for reply within second month |          | 1253 | 930 | 2253 | 465 | Extension for reply within third month |  | 1254 | 1,450 | 2254 | 725 | Extension for reply within fourth month |  | 1255 | 1,970 | 2255 | 985 | Extension for reply within fifth month |  | 1401 | 320 | 2401 | 160 | Notice of Appeal                                   |  | 1402 | 320 | 2402 | 160 | Filing a brief in support of an appeal                     |  | 1403                                  | 280 | 2403 | 140 | Request for oral hearing |  | 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding |  | 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable |  | 1453 | 1,300 | 2453 | 650 | Petition to revive - unintentional |  | 1501 | 1,300 | 2501 | 650 | Utility issue fee (or reissue) |  | 1502 | 470 | 2502 | 235 | Design issue fee |  | 1503 | 630 | 2503 | 315 | Plant issue fee |  | 1460 | 130 | 1460 | 130 | Petitions to the Commissioner |  | 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) |  | 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt |  | 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) |  | 1809 | 750 | 2809 | 375 | Filing a submission after final rejection (37 CFR 1.129(a)) |  | 1810 | 750 | 2810 | 375 | For each additional invention to be examined (37 CFR 1.129(b)) |  | 1801 | 750 | 2801 | 375 | Request for Continued Examination (RCE) |  | 1802 | 900 | 1802 | 900 | Request for expedited examination of a design application |  | Other fee (specify) _____ |  |  |  |  |  | <b>Subtotal (1)</b> (\$) <b>770.00</b> |  |  |  | <b>Subtotal (3)</b> (\$) <b>0.00</b> |  |
| Large Entity  |   | Small Entity |          | Fee Description  | Fee Paid |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| Fee Code  | Fee (\$)  | Fee Code     | Fee (\$) |  |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1051  | 130   | 2051         | 65       | Surcharge - late filing fee or oath  |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1052  | 50  | 2052         | 25       | Surcharge - late provisional filing fee or cover sheet.                    |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1053  | 130   | 1053         | 130      | Non-English specification  |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1812  | 2,520   | 1812         | 2,520    | For filing a request for <i>ex parte</i> reexamination                     |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1804  | 920*  | 1804         | 920*     | Requesting publication of SIR prior to Examiner action                     |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1805  | 1,840*  | 1805         | 1,840*   | Requesting publication of SIR after Examiner action                        |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1251  | 110   | 2251         | 55       | Extension for reply within first month                                     |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1252  | 410   | 2252         | 205      | Extension for reply within second month                                    |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1253  | 930   | 2253         | 465      | Extension for reply within third month                                     |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1254  | 1,450   | 2254         | 725      | Extension for reply within fourth month                                    |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1255  | 1,970   | 2255         | 985      | Extension for reply within fifth month                                     |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1401  | 320   | 2401         | 160      | Notice of Appeal   |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1402  | 320   | 2402         | 160      | Filing a brief in support of an appeal                                     |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1403  | 280   | 2403         | 140      | Request for oral hearing   |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1451  | 1,510   | 1451         | 1,510    | Petition to institute a public use proceeding                              |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1452  | 110   | 2452         | 55       | Petition to revive - unavoidable   |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1453  | 1,300   | 2453         | 650      | Petition to revive - unintentional   |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1501  | 1,300   | 2501         | 650      | Utility issue fee (or reissue)   |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1502  | 470   | 2502         | 235      | Design issue fee   |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1503  | 630   | 2503         | 315      | Plant issue fee  |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1460  | 130   | 1460         | 130      | Petitions to the Commissioner  |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1807  | 50  | 1807         | 50       | Processing fee under 37 CFR 1.17(q)  |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1806  | 180   | 1806         | 180      | Submission of Information Disclosure Stmt                                  |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 8021  | 40  | 8021         | 40       | Recording each patent assignment per property (times number of properties) |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1809  | 750   | 2809         | 375      | Filing a submission after final rejection (37 CFR 1.129(a))                |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1810  | 750   | 2810         | 375      | For each additional invention to be examined (37 CFR 1.129(b))             |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1801  | 750   | 2801         | 375      | Request for Continued Examination (RCE)                                    |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1802  | 900   | 1802         | 900      | Request for expedited examination of a design application                  |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| Other fee (specify) _____   |   |              |          |  |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| <b>Subtotal (1)</b> (\$) <b>770.00</b>  |   |              |          | <b>Subtotal (3)</b> (\$) <b>0.00</b>                                       |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| <b>1. BASIC FILING FEE</b><br><table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1001</td><td>770</td><td>2001</td><td>385</td><td>Utility filing fee</td><td>770.00</td></tr> <tr><td>1002</td><td>330</td><td>2002</td><td>165</td><td>Design filing fee</td><td></td></tr> <tr><td>1003</td><td>520</td><td>2003</td><td>260</td><td>Plant filing fee</td><td></td></tr> <tr><td>1004</td><td>750</td><td>2004</td><td>375</td><td>Reissue filing fee</td><td></td></tr> <tr><td>1005</td><td>160</td><td>2005</td><td>80</td><td>Provisional filing fee</td><td></td></tr> <tr><td colspan="6"><b>Subtotal (1)</b> (\$) <b>770.00</b></td></tr> </tbody> </table> |   | Large Entity |          | Small Entity   |          | Fee Description | Fee Paid | Fee Code | Fee (\$) | Fee Code | Fee (\$) | 1001 | 770 | 2001 | 385 | Utility filing fee                  | 770.00 | 1002 | 330 | 2002 | 165 | Design filing fee                                       |  | 1003 | 520 | 2003 | 260 | Plant filing fee          |  | 1004 | 750   | 2004 | 375   | Reissue filing fee                                     |  | 1005 | 160  | 2005 | 80   | Provisional filing fee                                 |  | <b>Subtotal (1)</b> (\$) <b>770.00</b> |        |      |        |   |  | <b>2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE</b><br><table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1202</td><td>18</td><td>2202</td><td>9</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>1201</td><td>84</td><td>2201</td><td>42</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>1203</td><td>280</td><td>2203</td><td>140</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>1204</td><td>84</td><td>2204</td><td>42</td><td>** Reissue independent claims over original patent</td><td></td></tr> <tr><td>1205</td><td>18</td><td>2205</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr><td colspan="6"><b>Subtotal (2)</b> (\$) <b>54.00</b></td></tr> </tbody> </table> |     | Large Entity |    | Small Entity                           |  | Fee Description | Fee Paid | Fee Code | Fee (\$) | Fee Code                                | Fee (\$) | 1202 | 18  | 2202 | 9   | Claims in excess of 20                 |  | 1201 | 84    | 2201 | 42  | Independent claims in excess of 3       |  | 1203 | 280   | 2203 | 140 | Multiple dependent claim, if not paid  |  | 1204 | 84  | 2204 | 42  | ** Reissue independent claims over original patent |  | 1205 | 18  | 2205 | 9   | ** Reissue claims in excess of 20 and over original patent |  | <b>Subtotal (2)</b> (\$) <b>54.00</b> |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| Large Entity  |   | Small Entity |          | Fee Description  | Fee Paid |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| Fee Code  | Fee (\$)  | Fee Code     | Fee (\$) |  |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1001  | 770   | 2001         | 385      | Utility filing fee   | 770.00   |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1002  | 330   | 2002         | 165      | Design filing fee  |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1003  | 520   | 2003         | 260      | Plant filing fee   |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1004  | 750   | 2004         | 375      | Reissue filing fee   |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1005  | 160   | 2005         | 80       | Provisional filing fee   |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| <b>Subtotal (1)</b> (\$) <b>770.00</b>  |   |              |          |  |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| Large Entity  |   | Small Entity |          | Fee Description  | Fee Paid |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| Fee Code  | Fee (\$)  | Fee Code     | Fee (\$) |  |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1202  | 18  | 2202         | 9        | Claims in excess of 20   |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1201  | 84  | 2201         | 42       | Independent claims in excess of 3  |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1203  | 280   | 2203         | 140      | Multiple dependent claim, if not paid                                      |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1204  | 84  | 2204         | 42       | ** Reissue independent claims over original patent                         |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| 1205  | 18  | 2205         | 9        | ** Reissue claims in excess of 20 and over original patent                 |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |
| <b>Subtotal (2)</b> (\$) <b>54.00</b>   |   |              |          |  |          |                 |          |          |          |          |          |      |     |      |     |                                     |        |      |     |      |     |   |  |      |     |      |     |                           |  |      |       |      |       |  |  |      |      |      |      |  |  |  |        |      |        |   |  |  |     |              |    |  |  |                 |          |          |          |   |          |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |     |  |  |      |     |      |     |  |  |      |     |      |     |  |  |                                       |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |                           |  |  |  |  |  |  |  |  |  |                                      |  |

\*\*or number previously paid, if greater; For Reissues, see above

| SUBMITTED BY      |                   | (Complete if applicable)          |                   |
|-------------------|-------------------|-----------------------------------|-------------------|
| Name (Print/Type) | Ronald P. Kananen | Registration No. (Attorney/Agent) | 24,104            |
| Signature         |                   | Telephone                         | (202) 955-3750    |
|                   |                   | Date                              | February 19, 2004 |